

Serial No. 10/675,987
Amdt. dated December 8, 2005
Reply to Office Action of August 8, 2005

Docket No. YHK-0121

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A protective film of a plasma display panel, comprising:
a main component comprising magnesium oxide (MgO); and
an addition of silicon (Si), wherein said protective film has less than 500ppm of
silicon is added to the main component to produce said protective film.
2. (Currently Amended) The protective film as claimed in claim 1, wherein said protective film comprises addition of silicon is about 20ppm to 300ppm of silicon.
3. (Previously Presented) The protective film as claimed in claim 1, wherein the protective film further comprises:
calcium (Ca) less than 50ppm;
iron (Fe) less than 50ppm; and
aluminum (Al) less than 250ppm.

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4. (Previously Presented) The protective film as claimed in claim 1, wherein said protective film has about 300ppm of silicon.

5-10. (Canceled)

11. (Currently Amended) The protective film as claimed in claim 1, wherein the addition of silicon compensates for secondary electron emission characteristics deteriorated by crystalline defects and impurities.

12. (Currently Amended) The protective film as claimed in claim 1, wherein the addition of silicon reduces a jitter value within the plasma display panel during address.

13-14. (Canceled)

15. (Currently Amended) A plasma display panel, comprising:
an upper substrate;
a lower substrate across from the upper substrate;
a plurality of electrodes on the upper substrate;
a protective film on the upper substrate layer; and

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a plurality of electrodes on the lower substrate, wherein said protective film comprises a main component of magnesium oxide and an addition of a predetermined amount of silicon.

16. (Currently Amended) The plasma display panel as claimed in claim 15, wherein said protective film comprises at most a 5000ppm addition of silicon.

17. (Currently Amended) The plasma display panel as claimed in claim 15, wherein said protective film comprises at most a 500ppm addition of silicon.

18. (Currently Amended) The plasma display panel as claimed in claim 15, wherein said protective film comprises an addition of silicon of about 20 to 300ppm of silicon.

19. (Previously Presented) The plasma display panel as claimed in claim 15, wherein the protective film further comprises:

calcium (Ca) less than 50ppm;
iron (Fe) less than 50ppm; and
aluminum (Al) less than 250ppm.

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20. (Currently Amended) The plasma display panel as claimed in claim 15, further comprising a discharge gas between the upper and lower substrates, wherein said discharge gas contains 5 volume % Xenon or more.

21. (Previously Presented) The protective film as claimed in claim 1, wherein the protective film further comprises:

nickel (Ni) less than 5ppm;
sodium (Na) less than 5ppm; and
potassium (K) less than 5ppm.

22. (Previously Presented) The protective film as claimed in claim 3, wherein the protective film further comprises:

nickel (Ni) less than 5ppm;
sodium (Na) less than 5ppm; and
potassium (K) less than 5ppm.

23-24. (Canceled)

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25. (Previously Presented) The plasma display panel as claimed in claim 15, wherein the protective film further comprises:

nickel (Ni) less than 5ppm;
sodium (Na) less than 5ppm; and
potassium (K) less than 5ppm.

26. (Previously Presented) The plasma display panel as claimed in claim 19, wherein the protective film further comprises:

an upper dielectric layer on the upper substrate.

27. (New) A protective film of a plasma display panel, comprising:

magnesium oxide (MgO); and
silicon (Si), wherein said protective film has about 300 ppm of silicon.

28. (New) A protective film of a plasma display panel, comprising:

magnesium oxide (MgO); and
silicon (Si), wherein said protective film has between about 150 ppm and 500 ppm of silicon.